

IN THE CLAIMS

Please amend the pending claims as shown below. The claims as amended with their history are shown as follows:

1. (Currently amended) A digital-signal-processing circuit having a gamma-correction unit for carrying out gamma correction on an input digital video signal by using a gamma-correction table, wherein the number of bits input to said gamma-correction unit is set at a value greater than the number of bits output from said gamma-correction unit,

a signal-processing unit is provided at a stage preceding said gamma-correction unit and used to apply an arbitrary gain to said input digital video signal; and

the number of bits output from said gamma-correction unit is set at a value greater than the number of bits input to said signal-processing unit.

2. (Canceled)

3. (Currently Amended) A display apparatus comprising:

display means employing electro-optical devices, each having a non-linear response characteristic;

a digital-signal-processing circuit having a gamma-correction unit for carrying out gamma correction on an input digital video signal by using a gamma-correction table, wherein the number of bits input to said gamma-correction unit is set at a value greater than the number of bits output from said gamma-correction unit; and

D/A-conversion means for converting a digital video signal obtained as a result of signal processing carried out by said digital-signal-processing circuit into an analog video signal and outputting said analog video signal to said display means;

wherein said digital-signal-processing circuit has a signal-processing unit provided at a stage preceding said gamma-correction unit and used to apply an arbitrary gain to said input digital video signal; and

the number of bits output from said gamma-correction unit is set at a value greater than the number of bits input to said signal-processing unit.

4. (Original) A display apparatus according to claim 3 wherein said electro-optical devices are each a liquid-crystal cell.

5. (Original) A display apparatus according to claim 3 wherein said electro-optical devices are each an organic electro-luminescent device.

6. (Original) A display apparatus according to claim 3 wherein said electro-optical devices are a cathode ray tube.

7. (Canceled)

8. (Canceled)

9. (Canceled)

10. (Canceled)

11. (Currently Amended) A liquid-crystal projector comprising:
an LCD panel comprising a matrix of pixels each implemented by a liquid-crystal cell;
radiation means for radiating beams to the area of said LCD panel;
a digital-signal-processing circuit having a gamma-correction unit for carrying out gamma correction on an input digital video signal by using a gamma-correction table, wherein the number of bits input to said gamma-correction unit is set at a value greater than the number of bits output from said gamma-correction unit; and

D/A-conversion means for converting a digital video signal obtained as a result of signal processing carried out by said digital-signal-processing circuit into an analog video signal and outputting said analog video signal to said display means; wherein

said digital-signal-processing circuit has a signal-processing unit provided at a stage preceding said gamma-correction unit and used to apply an arbitrary gain to said input digital video signal; and

the number of bits output from said gamma-correction unit is set at a value greater than the number of bits input to said signal-processing unit.

12. (Canceled)